

Subject: Minutes: DSS-13 Weekly Meeting 7-7-08

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Minutes: DSS-13 Weekly Meeting on 7-7-08 and 7-9-08

DSS-13 Antenna Activities:

- We have good progress on the S/X LNA service work at CMF. D. Hofhine, J. Lagrange and DSS-13 staff provided excellent coordination and technical support. Jeff located and corrected coax problems affecting the S-band stability, also corrected some X-band instability problems. The LNA was re-assembled, cooled, and tested on 6/24/08. The S-band HEMT stability test result was +/- .025 dB/10 sec. and the X-band HEMT was +/- .088 dB/10 sec. Typical gain stability specifications are +/- .03 dB/10 sec. and replacement of the X-band amplifier module will be required if we want to meet these specifications. E. Long provided two X-band amplifier modules. The modules have been tested by E. Long and M. Franco at JPL and shipped to CMF at GDSCC. One X-band amplifier module has been replaced and the system has been re-tested on 7/8/08. The initial result looks really good. The X-band gain stability is unofficially about +/- 0.01 dB/10 sec. Jeff and Doug plan to perform more test before returning it to DSS-13.
- Received 5 critique document and June monthly Log from Gary.
- We continue updating out 7-day schedule.

Full Sky 4th Order Pointing Model: Will provide a future plan in next week minutes.

DSS-13 Remote Operations: Had teleconferences with Nick Hovanessian on 7/7/08 and 7/9/08. We plan to be at GDSCC on 7/17/08 to work on DSS-13 and DSS-28 surveillance cameras.

Bandwidth and Band-limit of Ka-band System: Manuel F., Tom K. and Watt had a meeting on 7/8/08 and discussed about the test plan for experimental work on the bandwidth and band-limit of the Ka-band system at DSS-13 position 1. We agreed with the plan. M. Franco will perform the test during the week of 7/21/08 - 7/25/08.

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